

FEMA Geospatial Coordination Call

Hurricane Michael

October 10, 2018 2:00 PM EST

Conference Bridge: 800-320-4330, Passcode:247327#

Adobe Connect:

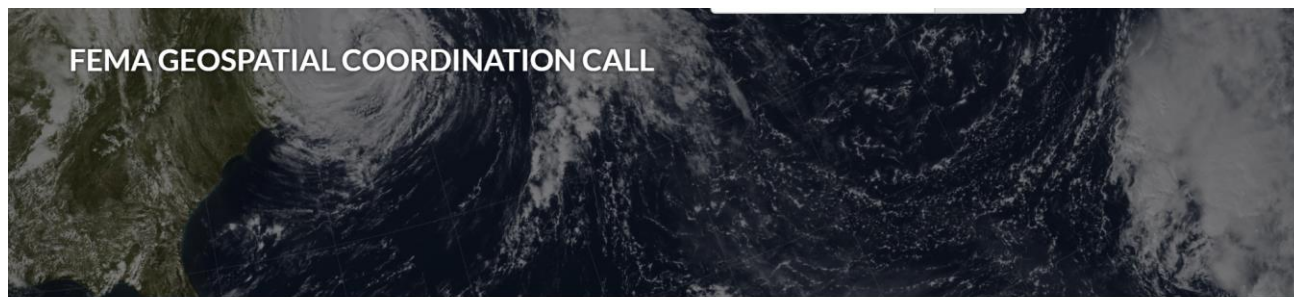
<https://fema.connectsolutions.com/geospatialcoordinationcall/>

Link to Storymap: <https://arcg.is/0f0Cr8>

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1. Geospatial Coordination Call Info



FEMA GEOSPATIAL COORDINATION CALL

Hurricane Michael

FEMA GEOSPATIAL COORDINATION CALL

Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

Coordination Call Story Map: <https://arcg.is/0f0Cr8>

Updated on October 10, 2018

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FEMA Hurricane Incident Journal:

<https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>

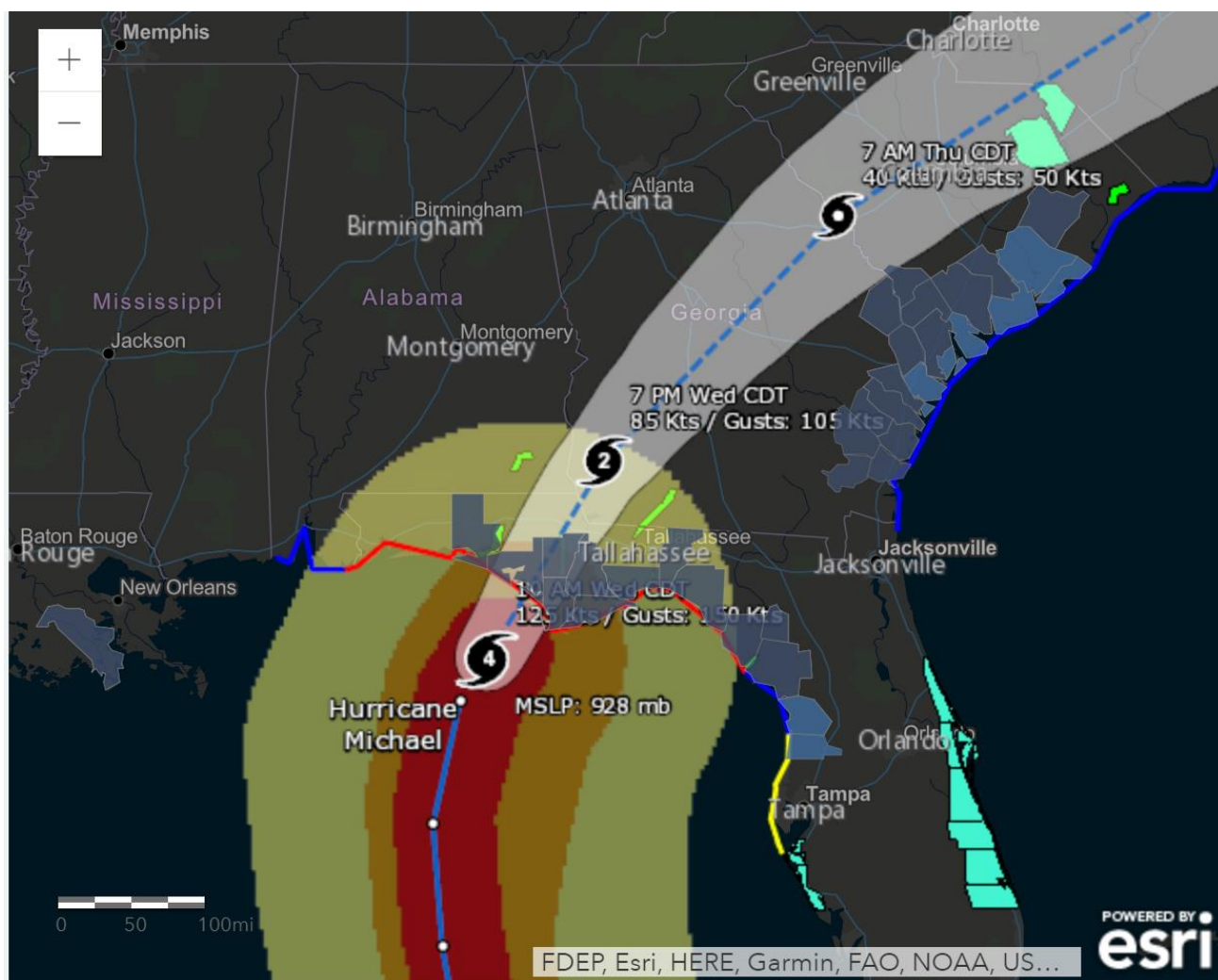
FEMA GIS Portal:

<http://fema.maps.arcgis.com/>

FEMA GIS Portal:

<https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>

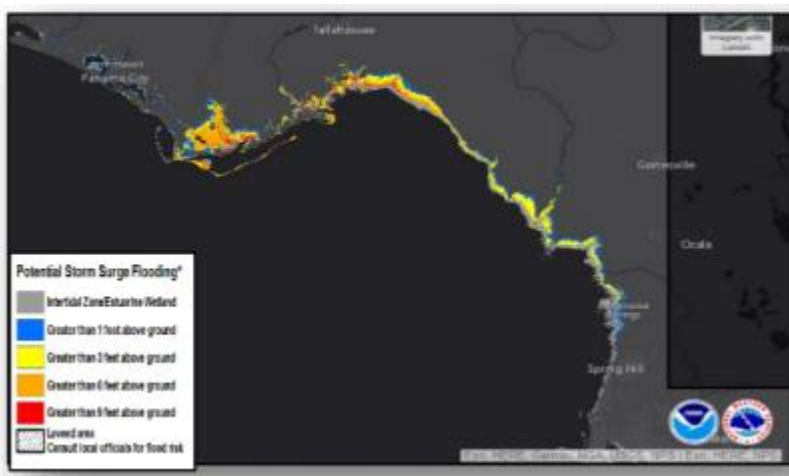
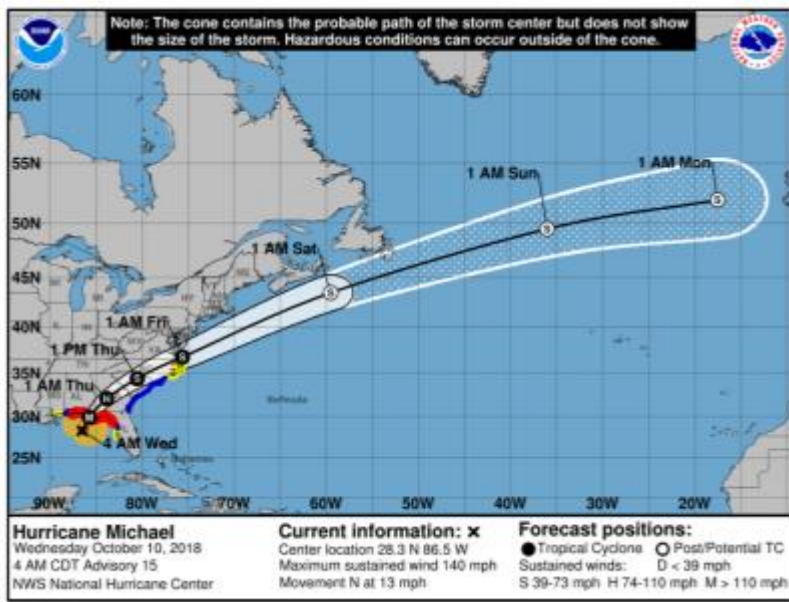
2. Situational Overview



October 10, 2018

Hurricane Michael (CAT 4 – Advisory #15 as of 5:00 a.m. EDT)

- Located 130 miles SW of Apalachicola, FL; moving N at 13 mph
- Max sustained winds 140 mph
- Some additional strengthening may occur prior to landfall; life threatening storm surge, hurricane force winds and heavy rainfall expected along the NE Gulf Coast
- Hurricane force winds extend 45 miles; tropical storm force winds extend 185 miles



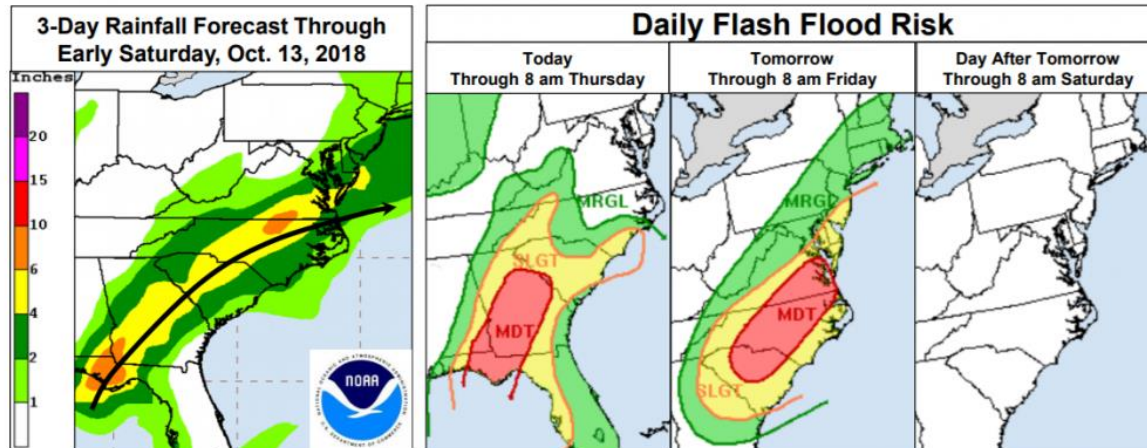
• Forecast Impacts

- **Storm Surge Warning** in effect for Gulf Coast of FL from Okaloosa/Walton County Line to Anclote River
- **Storm Surge Watch** in effect for Anclote River, FL to Anna Maria Island, FL, including Tampa Bay
- **Hurricane Warning** in effect for the Gulf Coast of FL from the AL/FL to Suwannee River, FL
- **Tropical Storm Warning** in effect from AL/FL border to MS/AL border; Suwannee River, FL to Chassahowitzka FL, Fernandina Beach, FL to Surf City, NC
- **Tropical Storm Watch** in effect from Chassahowitzka to Anna Maria Island, FL including Tampa Bay; MS/AL border to mouth of Pearl River; Fernandina Beach, FL, South Santee River, SC, to Duck, NC
- Storm surge as much as **9-13 feet** is possible in some portions of FL
- Hurricane conditions are expected within the hurricane warning area along U.S. Gulf Coast

- Rainfall amounts up to **4-8 inches**, with isolated maximum amounts of 12 inches, are possible; this could lead to life-threatening flash floods
- Swells are expected to begin affecting the coast of the eastern and northern Gulf of Mexico; these swells are likely to cause life-threatening surf

NWS Weather Prediction Center

Update #1, 8:30 am EDT, Wednesday, Oct. 10, 2018



- Heavy rainfall from Michael could produce life-threatening flash flooding from the Florida Panhandle and Big Bend region into portions of Georgia, the Carolinas, and southeast Virginia.

● Lifeline Priorities

- **Safety & Security – (FL / GA / AL / NC)**
 - No Updates
- **Food, Water and Shelter – (FL / GA / AL / NC)**
 - Shelters / Occupants: (WEBEOC)
 - AL: 11/69
 - FL: 53/3,870
 - GA: 1/1
- **Health and Medical – (FL / GA / AL / NC)**
 - FL:
 - 2 hospitals and 4 nursing facilities closed
 - 11 assisted living facilities and 5 adult care homes evacuating
- **Energy – (FL / GA / AL / NC)**
 - No Updates
- **Transportation – (FL / GA / AL / NC)**
 - FL:
 - Pensacola International Airport closed
 - Northwest Florida Beaches International Airport closed
 - Tallahassee International Airport closed
 - Destin Ft. Walton Beach Airport will closed
- **Hazardous Waste – (FL / GA / AL / NC)**
 - No Updates
- **Communications – (FL / GA / AL / NC)**
 - No Updates

October 09, 2018

Hurricane Michael (CAT 1 – Advisory #11 as of 5:00 a.m. EDT)

- Located 390 miles S of Apalachicola, FL; moving NNW at 12 mph
- Max sustained winds 90 mph
- Forecast to become a major hurricane by Tuesday or Tuesday night
- Hurricane force winds extend 40 miles; tropical storm force winds extend 195 miles



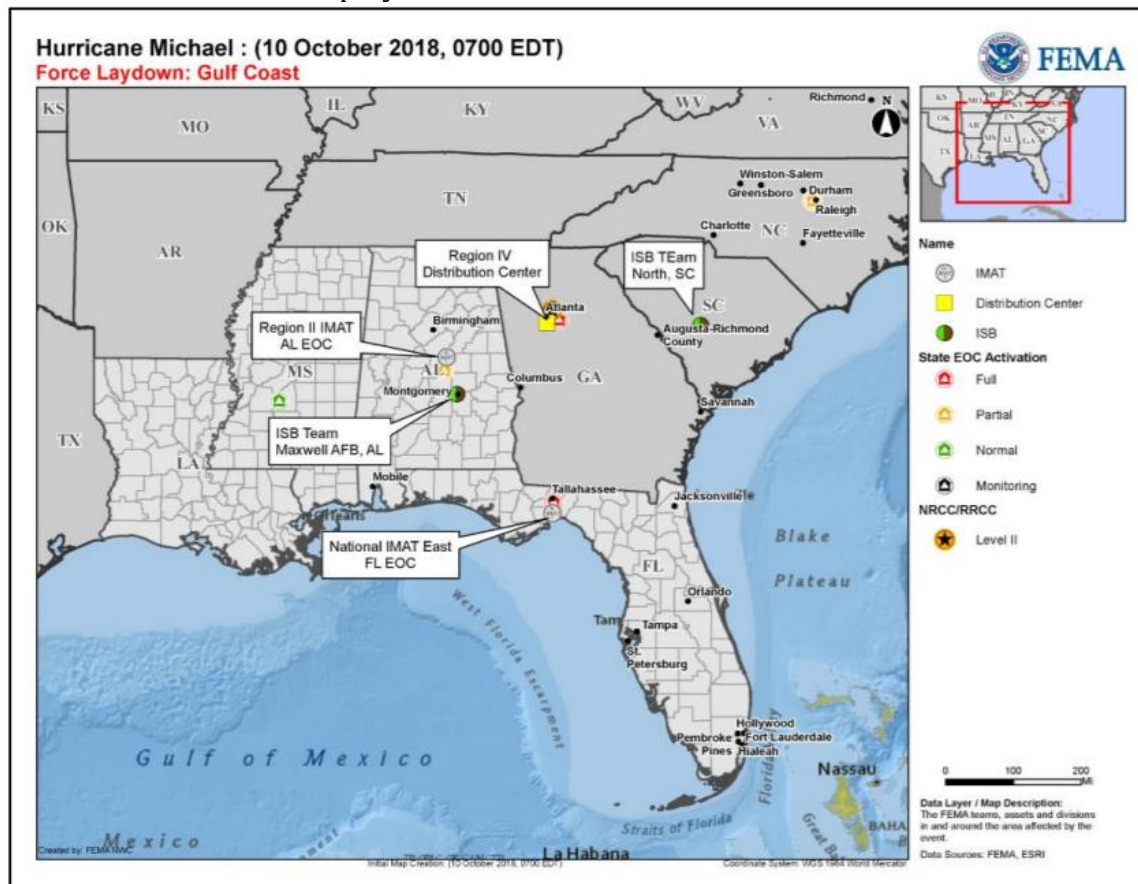
- **Forecast Impacts**
 - **Storm Surge Warning** in effect for Gulf Coast of FL from Okaloosa/Walton County Line to Anclote River
 - **Storm Surge Watch** in effect for Anclote River, FL to Anna Maria Island, FL, including Tampa Bay; and from AL/FL border to Okaloosa/Walton County Line, FL
 - **Hurricane Warning** in effect for the Gulf Coast of FL from the AL/FL to Suwannee River, FL
 - **Hurricane Watch** in effect from AL/FL border to MS/AL border
 - **Tropical Storm Warning** in effect from AL/FL border to MS/AL border; Suwannee River, FL to Chassahowitzka FL
 - **Tropical Storm Watch** in effect from Chassahowitzka to Anna Maria Island, FL including Tampa Bay; MS/AL border to mouth of Pearl River; Fernandina Beach, FL to South Santee River, SC
 - Storm surge as much as **8-12 feet** is possible in some portions of FL
 - Hurricane conditions are expected within the hurricane warning area along U.S. Gulf Coast by Wednesday, with tropical storm conditions expected by Tuesday night
 - Rainfall amounts up to **4-8 inches**, with isolated maximum amounts of 12 inches, are possible; this could lead to life-threatening flash floods
 - Swells are expected to begin affecting the coast of the eastern and northern Gulf of Mexico during the next day or so; these swells are likely to cause life-threatening surf

3. FEMA Regional Updates

October 10, 2018

Regional Updates:

- **FEMA R IV:**
 - RRCC at Level I (24/7) with all ESFs, DCO/DCE and DHS NPPD
 - RWC returned to Steady State
 - LNOs deployed to FL and GA
 - IMAT-2 deployed to FL EOC



- **State Response:**
 - **Alabama:**
 - EOC at Partial Activation; Governor declared a statewide state of Emergency
 - **Florida:**
 - FEMA incident journal is being built out, will be at [Hurricane Michael \(FL\) Map Journal](#)
 - EOC at Full Activation; Governor declared a State of Emergency for 35 counties
 - Emergency Declaration FEMA-3405-EM-FL approved on Oct 9
 - Mandatory evacuations in effect for 11 counties; voluntary evacuations in effect for 11 counties
 - **Georgia:**

- EOC at Full Activation; Governor declared state of Emergency for 92 counties
- **North Carolina:**
 - EOC at Partial Activation

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Activations/Declarations:

- No information

Regional Updates:

- **FEMA R IV:**
 - RRCC at Level II (day shift only) with all ESFs, DCO/DCE and DHS NPPD
 - RWC will go to Enhanced Watch (night shift only) at 7:00 pm EDT
 - LNOs deployed to FL (pre-designated FCO) and GA
 - IMAT-2 deployed to FL EOC
 - Developing force laydown map product
 - Providing dasymetric data analysis based on P-surge and potential wind probabilities (Advisory 11) for situational awareness
 - HAZUS wind reports based on Advisory 11
- **FEMA R VI:**
 - RWC remains at Steady State; continues to monitor
- **State Response:**
 - **Alabama:**
 - EOC at Partial Activation; Governor declared state of Emergency statewide
 - **Florida:**
 - Governor declared a State of Emergency for 35 counties
 - Governor requested an Emergency Declaration on October 8
 - Mandatory evacuations in effect for Gulf and Bay counties; voluntary evacuations in effect for Santa Rosa, Franklin, Calhoun, and Leon counties
 - EMAC request for US&R and swift water resources
 - **Georgia:**
 - EOC at Partial Activation

4. FEMA JFO Updates

Operations:

- No updates

Updated on October 9, 2018

5. FEMA HQ NRCC Updates

FEMA GIS Links:

- FEMA GIS Portal:
 - <https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0>
- FEMA Hurricane Incident Journal:
 - <https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5>
- *Disasters GeoPlatform* :
 - <https://disasters.geoplatform.gov/wa/home/>
 - *Notes: This data is available to the public, and categorized by lifeline for users to browse.*
- Joint Search and Rescue Activity Story Map Series:
 - <https://fema.maps.arcgis.com/apps/MapSeries/index.html?appid=7477ed4cea264a78b89cb6f8c7971911>

Other GIS Links:

- *NASA Disasters GIS Portal*:
 - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- *Voyager Imagery Indexing System*:
 - http://ec2-54-193-25-181.us-west-1.compute.amazonaws.com/navigo/search?sort=score&stats=true&stats.field=f_d_acquisition_date&fq=fs_usgs_dataset_fullname:201809_Hurricane_Florence&isp=D165438F7476&view=card&sortdir=desc
- *NAPSG Situational Awareness Viewer*:
 - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- *NAPSG 2018 Hurricane Crowdsourced Photos*:
 - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>

October 10, 2018

I. General:

- NRCC at Level I, 24/7 with all LNOs and all ESFs
- National IMAT East deployed to FL EOC
- Region II IMAT deployed to AL EOC
- ISB Team deployed to Montgomery, AL
- Staging areas: Montgomery, AL (Maxwell AFB); Fayetteville, NC (Ft Bragg); North AF AUX, SC
- US&R:
 - Pensacola, FL: Red IST, IST cache, FSARCG
 - Maxwell AFB, AL: 2 NIMS Type 1, 2 NIMS Type-3; 6 MRPs – water rescue; 1 HEPP

- HHS deploying 1 DMAT to FL and 2 DMATs to AL for staging (HHS R4 SPOTREP: 2018 Michael, Gulf of Mexico, Update #8, 12:38 pm October 9 HHS)

II. Production and Modeling:

- **Predicted surge impacts.** FEMA will use data from either the National Hurricane Center and/or the Coastal Emergency Risks Assessment (CERA) program at the Louisiana State University and overlay with CoreLogic parcel centroid data to determine potential surge impacts.
 - **Assumptions:**
 - This does not account for elevated structures and assumed that the parcel centroid is the building location. In addition, this does not account for wind damage, flooding from dam or levee breaks, flooding as a result of failure of irrigation ditches, use of spillways and weirs, small tributary flooding with minimal or no gage data, or stormwater backup.
 - Will provide this information by **COB 10/10. Please note** – this information will be using predicted data and will need to be updated to incorporate observed data.
- **Initial observed impacts.** We will use observed tide gage data to create a preliminary surge inundation depth grid and overlay with CoreLogic parcel centroid data to determine potential surge impacts.
 - **Assumptions:**
 - This does not account for elevated structures and assumed that the parcel centroid is the building location. In addition, this does not account for wind damage, flooding from dam or levee breaks, flooding as a result of failure of irrigation ditches, use of spillways and weirs, small tributary flooding with minimal or no gage data, or stormwater backup.
 - Will provide this information **COB 10/12**. This schedule is dependent on the track of the storm – if the storm does makes landfall later than anticipated, will communicate an updated schedule.

III. Remote Sensing:

- Coordination Call:
 - Daily at **2:30 PM EST**
 - Adobe Connect: <https://fema.connectsolutions.com/rscoordinationcall>
 - Conference Bridge: 800-320-4330, Passcode: 247327#

IV. Crowdsourcing:

- The FEMA Crowdsourcing Unit is coordinating crowdsourcing efforts with various Digital Volunteer Networks (DVNs) and also collaborating with the private sector and other partners to access crowdsourced data from existing crowdsourcing platforms to provide situational awareness at the FEMA National Response Coordination Center (NRCC). These crowdsourcing resources are organized by FEMA's Lifelines and are intended to fill any gaps and provide redundancy to the official response efforts by leveraging nontraditional sources of information and digital volunteers. See this [Google Doc](#) for the most updated version of the table. See this [Google Slide Deck](#) for updates from DVNs (*Google Doc and Slides accessible in Microsoft Edge web browser*). Crowdsourcing Resources will be provided by lifelines in this Story Map for future calls as they have more significant activity.
- **Daily Crowdsourcing Coordination Call at 1700 (5:00 pm EST) for 1 hour**
 - Zoom Webinar Link: <https://zoom.us/j/2228882929>

- Call-In Number: +16699006833, 2228882929#
- Slack Channel: <https://femacrowdsourcing.slack.co>

October 09, 2018

I. General:

- NRCC at Level II, 24/7 with all LNOs and select ESFs (1, 2, 3, 5, 6, 7, 8, 9, 12, 13 and 15)
- National IMAT East deployed to FL EOC
- Region II IMAT deployed to Region IV HQ (GA) for staging
- ISB Team deployed to FSA in Montgomery, AL
- Staging areas: Montgomery, AL (Maxwell AFB); Fayetteville, NC (Ft Bragg); North, SC
- US&R deployed a Red IST to Florida, 2 Type-1, 6 MRPs-Water Rescue; 1 HEPP
- HHS requested a DMAT cache to be dep

II. Production and Modeling:

- **No updates**

III. Remote Sensing:

- Coordination Call:
 - Daily at **2:30 PM EST**
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IV. Crowdsourcing:

- The FEMA Crowdsourcing Unit is coordinating crowdsourcing efforts with various Digital Volunteer Networks and also leveraging existing crowdsourcing platforms to provide situational awareness at the FEMA National Response Coordination Center (NRCC). The crowdsourcing efforts and platforms are organized by each critical lifeline in this [Google Doc](#) (*Accessible in Microsoft Edge*). These crowdsourcing products are intended to fill any gaps to the official response efforts by leveraging nontraditional sources of information as well as provide redundancy.
- **Coordination Call:**
 - TBD

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6. LIFELINE 1: SAFETY & SECURITY

SAFETY & SECURITY

KEY CONCERNS

Public Works and Engineering

- Infrastructure protection and emergency repair
- Infrastructure restoration
- Engineering services and construction management
- Emergency contracting support for life-saving and life-sustaining services

Firefighting

- Coordination of Federal firefighting activities
- Support to wildland, rural, and urban firefighting operations

Search and Rescue

- Life-saving assistance
- Search and rescue operations

Public Safety and Security

- Facility and resource security
 - Security planning and technical resource assistance
 - Public safety and security support
 - Support to access, traffic, and crowd control
-

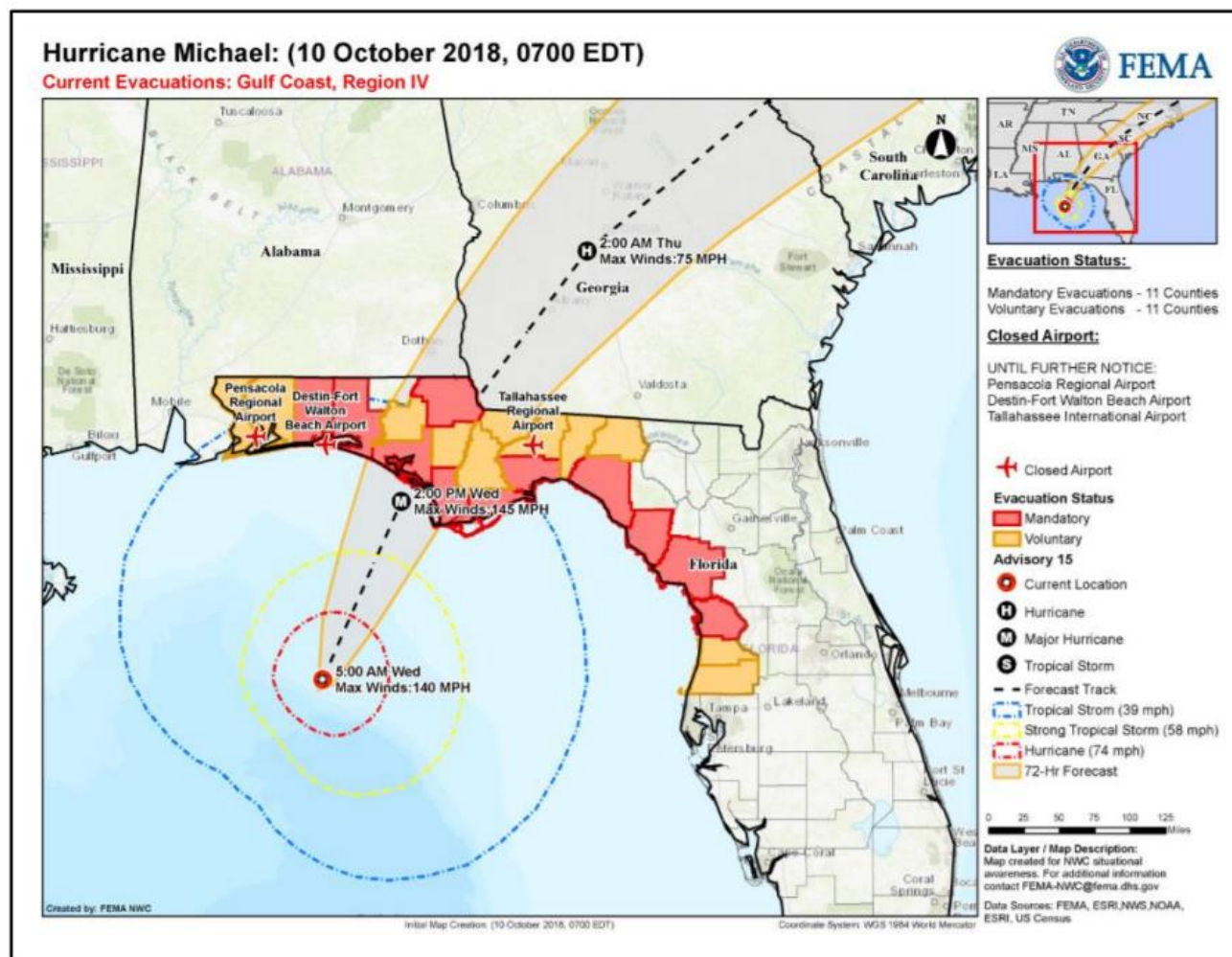
AGENCIES

- Department of Defense (U.S. Army Corps of Engineers)
 - Department of Agriculture (U.S. Forest Service)
 - Department of Homeland Security (FEMA)
 - Department of Justice
-

DATA LINKS

- *NASA Disasters GIS Portal:*
 - <https://maps.disasters.nasa.gov/arcgis/home/group.html?id=e675b5aa304c42dea82b58821d19c761>
- *NAPSG Situational Awareness Viewer:*
 - <https://www.napsgfoundation.org/resources/napsg-situational-awareness-viewer/>
- *NAPSG 2018 Hurricane Crowdsourced Photos:*
 - <https://www.arcgis.com/apps/StoryMapCrowdsource/index.html?appid=69b95886cf8e49a3a349c9d550174a91>
- *Civil Air Patrol Imagery Uploader:*
 - <https://communities.geoplatform.gov/disasters/civil-air-patrol-cap-browser/>

DAILY UPDATES
October 10, 2018



7. LIFELINE 2: FOOD, WATER, SHELTERING

FOOD, WATER, SHELTERING

KEY CONCERNS

Mass Care, Emergency Assistance, Temporary Housing and Human Services

- Mass care
- Emergency assistance
- Disaster housing
- Human services

Logistics Management and Resource Support

- Comprehensive, national incident logistics planning, management, and sustainment capability
- Resource support (facility space, office equipment and supplies, contracting services, etc.)

Public Works and Engineering

- Infrastructure protection and emergency repair
 - Infrastructure restoration
 - Engineering services and construction management
 - Emergency contracting support for life-saving and life-sustaining services
-

AGENCIES

- Department of Homeland Security (FEMA)
 - General Services Administration and Department of Homeland Security (FEMA)
 - Department of Defense (U.S. Army Corps of Engineers)
-

DAILY UPDATES

DAILY UPDATES

October 09, 2018

- No updates

8. LIFELINE 3: HEALTH & MEDICAL

HEALTH & MEDICAL

KEY CONCERNS

Public Health and Medical Services

- Public health
 - Medical
 - Mental health services
 - Mass fatality management
-

AGENCIES

- Department of Health and Human Services
-

DAILY UPDATES

October 09, 2018

- No Updates

9. LIFELINE 4: ENERGY (POWER, FUEL)

KEY CONCERNS

Energy

- Energy infrastructure assessment, repair, and restoration
- Energy industry utilities coordination
- Energy forecast

AGENCIES

- Department of Energy

DAILY UPDATES

October 09, 2018

- No Updates

10. LIFELINE 5: COMMUNICATION

COMMUNICATION

KEY CONCERNS

Communications

- Coordination with telecommunications and information technology industries
 - Restoration and repair of telecommunications infrastructure
 - Protection, restoration, and sustainment of national cyber and information technology resources
 - Oversight of communications within the Federal incident management and response structures
-

AGENCIES

- Department of Homeland Security (National Communications System)
-

DAILY UPDATES

October 09, 2018

- No Updates

11. LIFELINE 6: Transportation

KEY CONCERNS

Transportation

- Aviation/airspace management and control
- Transportation safety
- Restoration and recovery of transportation infrastructure
- Movement restrictions
- Damage and impact assessment

AGENCIES

- Department of Transportation

DAILY UPDATES

October 09, 2018

- ESRI
 - WAZE Data:
 - <http://disasterresponse.maps.arcgis.com/home/item.html?id=075a284c8a6b4ce0ae10e4483cdeceb8>

12. LIFELINE 7: HAZARDOUS WASTE

HAZARDOUS WASTE

KEY CONCERNS

Oil and Hazardous Materials Response

- Oil and hazardous materials (chemical, biological, radiological, etc.) response
- Environmental short- and long-term cleanup

Agriculture and Natural Resources

- Nutrition assistance
 - Animal and plant disease and pest response
 - Food safety and security
 - Natural and cultural resources and historic properties protection
 - Safety and well-being of household pets
-

AGENCIES

- Environmental Protection Agency
 - Department of Agriculture
-

DAILY UPDATES

October 09, 2018

- No Updates

13. ADDITIONAL INFORMATION

FEMA Geospatial Coordination Calls

When? Daily @ 2:00 PM (Eastern)

Where? Conference Bridge: 800-320-4330, Passcode: 247327#

Adobe Connect: <https://fema.connectsolutions.com/geospatialcoordinationcall/>

>> Daily coordination call notes will be posted at the following location:

<https://disasters.geoplatform.gov/publicdata/NationalDisasters/HurricaneFlorence/Documents/GeospatialCoordinationCallNotes/>

>> Register for the FEMA Daily Operations Briefing here:

https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_153

**** Please forward the details of these calls to other interested parties, including state and local representatives.***

>> To be added to the Geospatial Coordination Calls During Disasters mailing list:

https://public.govdelivery.com/accounts/USDHSFEMA/subscriber/new?topic_id=USDHSFEMA_1351

>> Questions?

contact us at: FEMA-MDWG@fema.dhs.gov